

DESIGN REVIEW COMMENT AND RESOLUTION FORM



PROJECT NO.: 607411

DESCRIPTION: Tisbury - Bike & Pedestrian Improvements along Beach Road

DESIGNER: Greenman-Pedersen, Inc.

SUBMITTAL: REV25%

REVIEW SECTION: District 5 - DUCE

PROJ. MANAGER Thomas H. Currier

CONSULTANT EVALUATION SCORE:

6

DATE: March 24, 2016

REVIEWER NAME: Chris Betourney / RFB

NO.	SHEET OR ITEM	COMMENT	INITIAL ACTION	RESPONSE	QC REVIEW INITIAL	FINAL ACTION VERIFIED
COMPLETED BY REVIEWER			COMPLETED BY DESIGNER			BY REVIEWER
O1		Utilities currently identified within the project limits have been noted on the attached REV25% Project Utility Summary sheet. In accordance with Engineering Directive E-11-008, private utility owners are eligible for 50% and municipal utility owners are eligible for 100% cost reimbursement for required relocations. A detailed scope of work and an itemized estimate of costs will be required from the affected utilities. This scope and estimate will be provided to the State Utilities Engineer.	A	Utility Coordination is underway.		
O2		There are service risers requiring relocation on this project. All private secondary electric service risers on utility poles to be relocated will need to be identified, and Item 826.7 Electric Service Riser Relocation added as a separate contract Item.	A	Item 826.70 has been included in the estimate and the relocations have been identified.	EMR	
		Typical Sections				
P3	5	For the micro milled Typical Section Sta. 10+42 to Sta. 15+00, the proposed cross slopes shown on the Cross Sections are variable across the sections and inconsistent in between stations. Recommend changing the proposed cross slope from "meet existing" to 2.0%.	A	The cross slopes have been revised. However, it should be noted that the project is now all full depth construction.	JAT	
P4	6	The Typical Section for Sta. 26+40 to Sta. 36+64 shows full depth construction, however the cross sections indicates mill and overlay between Sta. 31+50 and Sta. 36+64. Please reconcile.	A	This typical section has been revised and another section has been added to reflect the actual design.	JAT	
		Drainage & Utility Plans				
P5	12 thru 21	Please add the missing pole riser and street light information to the base plan pole labels.	A	This comment has been incorporated into the 75% Design Submission.	JAT	

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P6	12 thru 21	Per the meeting held on 2/5/2016, all UP's being R&R are to be set 1ft behind the proposed sidewalk and 3ft behind the shared-use path. Also, the Town requested that all OHW services crossing the roadway be replaced with underground services to existing/proposed manholes, HH's and/or service poles. The relocation of the services underground will be non-participating. To be discussed at the upcoming DUCE Utility Field Meeting.	A	This comment has been incorporated into the 75% Design Submission. The underground services will be discussed with the Town of Tisbury.	JAT	
P7	12 thru 21	Change the labels for the existing water main from: 12" DI to: 12" DI Water.	A	This comment has been incorporated into the 75% Design Submission.	JAT	
P8	12 thru 21	Please change the labels for the existing sewer main from: 2" HDPE to: 2" HDPE FM Sewer, and from: 3" HDPE to: 3" HDPE FM Sewer.	A	This comment has been incorporated into the 75% Design Submission.	JAT	
P9	12 thru 21	There are possible vertical conflicts with the existing 3" and 2" HDPE sewer lines that cross the proposed drainage lines. Provide all sewer manhole inverts and adjust any proposed drainage lines as needed. Contact the Tisbury DPW and obtain the missing information.	A	A full drainage design has been provided for the 75% submission and all existing inverts are now shown on the plans.	JAT	
P10	12 thru 21	Label existing drainage pipes being abandoned within the proposed full depth areas as "REM".	A	This comment has been incorporated into the 75% Design Submission.	JAT	
P11	12 thru 21	Show a dashed line around the outer perimeter of each proposed catch basin and manhole as shown on Exhibit 18-10, PPDG; in order to identify utility conflicts. Additionally, where proposed drainage structures are in close proximity to existing underground utilities, offset structures should be shown and labeled. (See Attached Detail)	A	This comment has been incorporated into the 75% Design Submission.	JAT	
P12	12 thru 21	Provide a Drainage Structure Data Table which includes' the structure #, type, station, rim elevation, inverts in/out and remarks columns in the table. (Refer to the sample drainage table in MassDOT's 2006 Project Development & Design Guide, chapter 18, page 20)	A	This comment has been incorporated into the 75% Design Submission.	JAT	
P13	12 thru 21	There are multiple structures within the project limits labelled as "OMH". Please identify the utility that these manholes are associated with and show their underground facilities on the base plans in the next submission.	A	This comment has been incorporated into the 75% Design Submission.	JAT	
P14	18	Per the meeting held on 2/5/2016, the Town requested that all obstructions be located outside of the proposed sidewalks and SUP. As a result, relocate the existing hydrant at Sta.15+91RT behind the proposed sidewalk with it's required WM Easement	A	This comment has been incorporated into the 75% Design Submission.	JAT	
P15	19 & 20	Show and label a tide gate in proposed DMH#200 at Sta.21+49LT and CIT#301 at Sta.30+82RT in order to prevent backflow into the proposed drainage system.	A	This comment has been incorporated into the 75% Design Submission.	JAT	
P16	19 & 20	Include a label to "ADJ" the existing SMH at Sta.25+55LT.	A	This comment has been incorporated into the 75% Design Submission.	JAT	
P17	20	The existing private LP at Sta.26+93LT will conflict with the proposed OHW relocations. Please label this LP to be R&R (BO). This will need to be addressed during the ROW process.	A	The proposed utility pole locations have been relocated across the roadway. The existing LP will not be affected by the OHW.	JAT	

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P18	20	Graphically show the proposed CB#313 at Sta.28+68RT on the plans. (See Comment # P11)	A	This comment has been incorporated into the 75% Design Submission.	JAT	
P19	20 & 21	Per the email sent on 02/24/2016, please note that the increase in width of the buffer strip from: 1.5ft to: 3ft will place the existing hydrant at Sta.26+63RT within the shared-use path. Please show and label this hydrant being R&R behind the shared-use path, 3ft from the center of the hydrant to the back of the proposed path, along with its required WM easement.	A	This comment has been incorporated into the 75% Design Submission.	JAT	
P20	20 & 21	The distance between the relocated OHW's and existing fuel tanks at Sta. 30+00LT do not meet the required clearances needed by Eversource-Electric. As a result, it is recommended that the OHW's be relocated underground from relocated UP#131/26 to existing UP#131/29. To be discussed at the upcoming DUCE Utility Field Meeting.	A	The proposed utility pole locations have been relocated across the roadway avoiding clearance issues near the existing fuel tanks. An underground service is proposed between UP #131/28 and UP #131/33.	JAT	
Traffic Sign & Pavement Markings						
P21	22 thru 26	Per the meeting held on 2/5/2016, the Town requested that all obstructions be located outside of the proposed sidewalks and SUP. As a result, locate traffic signs behind the sidewalk, wherever a 5.5' sidewalk is proposed adjacent to the roadway, to allow for required ADA/AAB clearances. (Refer to 2009 MUTCD, Sect. 2A.16, Figure 2A-2, C-Roadside Sign In Business Commercial Or Residential Area.) Where the SUP is proposed the signs should be placed in the buffer strip a minimum 2ft from the face of curb.	A	This comment has been incorporated into the 75% Design Submission.	JAT	
Temporary Traffic Control Plan						
P22	29	Remove the <u>Two Lane Road Shoulder And Travel Lane Closed</u> detail. The existing roadway's width will not allow for this type of traffic setup.	A	The proposed road will be 30ft wide from station 10+32 to 20+50. There would be a possibility of shoulder/sidewalk work where this scheme could be utilized. We can delete in the next submission if desired.	JFO	
P23	29	Include the <u>Full Depth Construction - Construction Not In Progress</u> detail with the next submission. (See Attached Detail)	A	This comment has been incorporated into the 75% Design Submission.	JAT	
Construction Details						
P24	31	In the <u>Hydrant Installation Hydrant Removed And Reset</u> detail please change the label for the new hydrant from: Hydrant To Be Adjusted To Grade As Required, Rotate As Necessary to: Hydrant's Bottom Flange To Be Set 2-4" From Finished Grade And Rotated As Necessary.	A	This comment has been incorporated into the 75% Design Submission.	JAT	
P25	31	Please include a leaching basin detail for the proposed LB at Sta.20+49LT. (See Attached Detail)	C	This is not necessary since we are not proposing a leaching basin anymore.	JAT	
P26	31	Include an offset catch basin detail. (See Comment # P11) & (See Attached Detail)	A	This comment has been incorporated into the 75% Design Submission.	JAT	
P27	31	Please provide a plan and profile of the proposed retaining wall from Sta.22+97LT to Sta.23+92LT, which includes the top and bottom of wall elevations.	C	The proposed retaining wall has been removed from the plans.	JAT	
Cross Sections						

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P28	54 thru 58	The left side cross slope for the cross sections from Sta. 31+50 to Sta. 35+00 is sloped toward the roadway's center line not the edge of road, correct the direction of cross slope arrow. Also, the typical section shows full depth construction not mill and overlay in this area, please reconcile. (See comments # P3 & P4)	A	The pavement treatment has been revised to full depth construction throughout the project limits.	JAT	
		Estimate				
E29	129.5	Include Item 129.5 - Track Excavation to the estimate to address the removal of the existing marine railway within the SHLO at Sta.29+00LT & RT.	A	Item 129.5 has been added to the estimate.	EMR	
E30	141	Include Item 141 - Class A Trench Excavation to the estimate for the proposed retaining wall from Sta.22+97LT to Sta.23+914LT.	C	A wall is no longer being proposed, therefore, Class A Trench Excavation is no longer required.	EMR	
E31	151.2	Include Item 151.2 - Gravel Borrow For Backfilling Structures And Pipes referenced in note #2 in the <u>Drainage Trench Detail</u> in the Construction Details.	C	The note has been updated to no longer reflect item 151.2.	EMR	
E32	156	Recommend increasing the quantity of Item 156 - Crushed Stone for the proposed drainage work due to the high water table in this area.	A	This comment has been incorporated into the 75% Design Submission.	EMR	
E33	220.5	Remove Item 220.5 - Drainage Structure Remodeled from the estimate. There are no drainage structures proposed to be remodeled on this project.	A	Item 220.5 has been removed from the estimate.	EMR	
E34	220.7	Include Item 220.7 - Sanitary Structure Adjusted to the estimate for the (3) SMH's proposed to be ADJ. (See Comment # P16)	A	Item 220.7 has been added to the estimate.	EMR	
E35	227.1	Include Item 227.1 - Tide Gate. The existing 18" and 15" outlet pipes for the drainage system are currently below sea level and will require a back flow preventer. (See Comment # P15)	A	Item 227.1 has been added to the estimate.	EMR	
E36	303.06	Include Item 303.06 - 6 Inch Ductile Iron Water Pipe (Mechanical Joint) to the estimate for the hydrants being R&R. (See Comments # P14 & P19)	A	Item 303.06 has been added to the estimate.	EMR	
E37	303.12	Remove Item 303.12 - 12 Inch Ductile Iron Water Pipe (Mechanical Joint) from the estimate. There are no proposed water relocations on this project.	C	There are now proposed water main relocations requiring item 303.12.	EMR	
E38	350.08	Remove Item 350.08 - 8 Inch Gate and Gate Box from the estimate. There are no 8" water pipes on this project.	A	Item 350.08 has been removed from the estimate.	EMR	
E39	376.2	Include Item 376.2 - Hydrant Removed And Reset to the estimate. (See Comments # P14 & P19)	A	Item 376.2 has been added to the estimate.	EMR	
E40	660	Please include Item 660 - Metal Pipe Rail to the estimate for the proposed handrail from Sta.22+97LT to Sta.23+914LT.	C	Metal Pipe Rail is no longer being proposed as part of this project.	EMR	
E41	823.71	Include Item 823.71- Highway Lighting Pole and Luminaire Removed and Stacked along with its required special provision as a contingency for a private LP that is not R&R by the owner in a timely manner. (See Comment # P17)	A	Item 823.71 has been added to the estimate.	EMR	
E42	856	Please include Item 856 - Arrow Board shown in the <u>Two Lane Road Shoulder Closed</u> detail in the Temporary Traffic Control Plan.	A	Item 856. has been added to the estimate.	EMR	

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E43	996.01 991.1	Include Item 996.01 - Wall Structure, Wall No.1 for the proposed retaining wall from Sta.22+97LT to Sta.23+914LT, along with its companion Item 991.1 - Control Of Water - Structure No.1.	C	The proposed retaining wall has been removed from the plans.	JAT	
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